

### Abstract of the Disclosure

A color image pickup device including: a pixel group placed in an array of a plurality of pixels of photoelectric conversion elements; and a color coding array corresponding to the pixel group, said color coding array arranged in a randomized array, or arranged in a randomized array satisfying predetermined array restricting conditions, or arranged in a randomized array satisfying predetermined color distributing conditions. Thereby an object image can be picked up in accordance with a randomized color coding array having no regularity, making it possible without using an optical low-pass filter to achieve a color image pickup device and color image pickup apparatus using the color image pickup device capable of keeping color moire from occurring even of an object having a cyclic luminance change.